

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

Claims 1-7. (Canceled)

8. (Previously Presented) A method for associating a network policy with a subscriber in an asynchronous transfer mode (ATM) network, the network policy including rights for establishing a switched virtual circuit (SVC) connection, the method comprising:

interfacing between the ATM network and the subscriber through an ATM compatible access port, the ATM compatible access port being remote from a first access port previously associated with the subscriber;

receiving at the ATM network a conventional signaling protocol message requesting the SVC connection;

determining whether the signaling protocol message contains a first identifier associated with the subscriber;

when the signaling protocol message contains the first identifier, determining whether the signaling protocol message contains a second identifier that correctly corresponds to the first identifier;

when the signaling protocol message contains the correctly corresponding second identifier, retrieving the service policy from an account associated with the first identifier and the second identifier;

determining whether the retrieved service policy permits the subscriber to establish the SVC connection; and

when the retrieved service policy permits the subscriber to establish an the SVC connection, establishing the SVC connection and registering an address of the ATM compatible access port.

9. (Previously Presented) The method according to claim 8, wherein the first identifier comprises a publicly known identifier associated with the subscriber and the second identifier comprises an encrypted private password associated with the first identifier.

10. (Previously Presented) The method according to claim 8, the signaling protocol message comprising a SETUP message, the first identifier being contained in a first predetermined field of the SETUP message and the second identifier being contained in a second predetermined field of the SETUP message.

11. (Previously Presented) The method according to claim 8, the registering comprising:

retrieving the ATM compatible access port address from a signaling protocol message;

retrieving from a registration database registration data associated with the first access port of the subscriber, the registration data comprising a first ATM address; and

replacing the first ATM address with the ATM compatible access port address retrieved from the signaling protocol message.

Claims 12-16. (Canceled)

17. (Currently Amended) A system for processing a switched virtual circuit (SVC) connection request in a high speed data network, the system comprising:

a registration server of the high speed network, that stores at least one identifier associated with a network subscriber;

a database of the high speed network that stores at least one policy defining permission to establish SVC connections; and

at least one switch in the high speed data network that accesses the registration server and the database;

wherein the switch is accessible by a remote access port, connectable to the switch, which enables the network subscriber to interface with the high speed data network from a subscriber terminal, the remote access port being different from a previously established access port associated with the network subscriber; and

wherein the switch receives a protocol message from the subscriber terminal requesting the SVC connection via the remote access port, accesses the registration server to determine whether the protocol message contains valid authentication data, retrieves the at least one policy associated with the network subscriber from the registration database when the protocol message contains valid authentication data, and establishes the SVC connection according to the at least one policy.

18. (Canceled)

19. (Currently Amended) The system according to claim ~~48~~ 17, wherein the server registers an address of the remote access port in place of an address of the previously established access port associated with the ATM subscriber.

20. (Previously Presented) A system for processing services of a subscriber in an asynchronous transfer mode (ATM) network, including establishing a switched virtual circuit (SVC) connection, the system comprising:

an ATM network registration server that stores authentication data associated with the subscriber, the authentication data comprising identification data and a password;

an ATM network service database that stores at least one ATM policy for establishing the SVC connection; and

at least one ATM network switch that accesses the registration server and the service database, the switch being connectable to a remote access port that enables the subscriber to interface with the ATM network from a subscriber terminal;

wherein the registration server determines whether a signaling protocol message requesting the SVC connection, received via the access port, includes the identification data and the password associated with the subscriber; and

wherein, when the protocol message includes the identification data and the password, the at least one switch accesses the service database to determine the ATM service policies associated with the subscriber and processes the SVC connection request according to the ATM service policies.

21. (Previously Presented) The system according to claim 20, wherein the authentication data is contained in at least one of a plurality of predetermined fields of an ATM SETUP message of the signaling protocol message.

22. (Previously Presented) The system according to claim 21, wherein the registration server stores an address of the remote access port contained in one of a plurality of predetermined fields and substitutes the stored address of the remote access port for a preexisting address of another access port of the subscriber.

23. (Previously Presented) A system for registering a new access port of a subscriber in an asynchronous transfer mode (ATM) network, the system comprising:

- a registration server that stores an original port address as a registration address associated with a subscriber; and

- at least one ATM switch in the ATM network that accesses the registration server, the ATM switch being connectable to at least the new access port that enables the ATM subscriber to interface with the ATM network from a terminal;

- wherein the ATM switch interfaces the terminal to the registration server via the new access port; and

- wherein, the registration server changes the registration address from the original port address to an address corresponding to the new access port, such that subsequent ATM network connection requests directed to the subscriber are terminated at the terminal via the new access port.

24. (Previously Presented) The system according to claim 23, wherein the registration server stores the address of the new access port in place of the original port address when the ATM subscriber instructs the registration server to register the new access port.

25. (Currently Amended) A computer readable medium for storing a computer program that associates a switched virtual circuit (SVC) connection request in a high speed data network with a network subscriber, the subscriber accessing the high speed data network from a remote access port, which is different from an initial access port of the subscriber, the computer readable medium comprising:

- a receiving code segment that receives a signaling protocol message requesting the SVC connection from the subscriber at the remote access port;

- an authentication code segment that determines whether the signaling protocol message contains authentication data to authenticate the subscriber;
- and

- an associating code segment that associates the SVC connection request with data from an account corresponding to the subscriber when the subscriber is authenticated; and

- a registering code segment that registers an address of the remote access port in the high speed data network when the subscriber is authenticated.

26. (Previously Presented) The computer readable medium for storing the computer program according to claim 25, further comprising:

a retrieving code segment that retrieves service policies from the subscriber account;

a determining code segment that determines from the service policies whether the subscriber is entitled to access the high speed data network, as requested; and

an enabling code segment that enables access to the high speed network through the remote access port when the service policies entitle the subscriber to the requested access.

27. (Canceled)

28. (Previously Presented) The computer readable medium for storing the computer program according to claim 25, wherein the registering code segment registers the address of the remote access port by substituting the address of the remote access port for an existing subscriber address corresponding to the initial access port.

Claims 29-33. (Canceled)